

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 15, 2026

SJ4058

RRID:WB-STRAIN:WBStrain00034066

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00034066

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00034066>

Proper Citation: RRID:WB-STRAIN:WBStrain00034066

Description: Caenorhabditis elegans with name zcls9 V. from WB.

Species: Caenorhabditis elegans

Synonyms: zcls9 V.

Notes: Generated from papers flagged positive during the last month for data type afp_strain/other_strain.|"WBStrain mapped, WBPaper00061409 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061527 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061562 added based on AFP_Strain data."|"WBStrain provided so WBPaper00061870 paper added based on AFP_Strain data."|"zcls9 [hsp-60::GFP + lin-15(+)]. Stable transgenic line with low basal GFP expression, mainly in the tail, observed from L1 to adult. Induced by perturbations of mitochondrial folding environment."

Affected Gene: WBGene00002025(hsp-60)

Genomic Alteration: WBGene00002025(hsp-60)

Catalog Number: WB-STRAIN:WBStrain00034066

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:31735670](#), [PMID:33319173](#), [PMID:33542359](#), [PMID:34172445](#), [PMID:34467850](#), [PMID:35045336](#), [PMID:36774344](#), [PMID:39169052](#)

Alternate IDs: WB-STRAIN:SJ4058, CGC_SJ4058

Organism Name: SJ4058

Record Creation Time: 20230227T013636+0000

Record Last Update: 20260808T171442+0000

Ratings and Alerts

No rating or validation information has been found for SJ4058.

No alerts have been found for SJ4058.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Cornell R, et al. (2025) Gas-sensing neurons prime mitochondrial fitness to offset metabolic stress. bioRxiv : the preprint server for biology.

Engelfriet ML, et al. (2025) Reprogramming gene expression in 'hibernating' C. elegans involves the IRE-1/XBP-1 pathway. eLife, 13.

Pees B, et al. (2024) The Caenorhabditis elegans proteome response to two protective Pseudomonas symbionts. mBio, 15(4), e0346323.

Cornell R, et al. (2024) Neuro-intestinal acetylcholine signalling regulates the mitochondrial stress response in Caenorhabditis elegans. Nature communications, 15(1), 6594.

Thirumaran P, et al. (2024) Endogenous fluorescent reporters for heat shock proteins are not detectable after stress induction. microPublication biology, 2024.

Mirza Z, et al. (2023) A bacterial pathogen induces developmental slowing by high reactive oxygen species and mitochondrial dysfunction in Caenorhabditis elegans. Cell reports, 42(10), 113189.

Woodhouse RM, et al. (2022) Mitochondrial succinate dehydrogenase function is essential for sperm motility and male fertility. iScience, 25(12), 105573.